

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D407-797 REV. C AND IIN-D407-797-1 REV. D AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D407-797 REV. 3 OR LATER APPROVED REVISION

REF. TCCA STC: SH11-1
REF. FAA STC: SR02996NY
REF. EASA STC: 10035429
REF. JCAB STC: STC-498-TYO
REF. ANAC BRAZIL STC: 2022S07-10

1.0 PURPOSE:

It has come to Dart's attention that the installation of the AAI sliding door track assembly will interfere with the installation of the Dart D407-797-011/-012/-013/-014/-111 Quick Release Heli-Utility-Basket kits. Dart has introduced the following new kits to accommodate the AAI sliding door tack assembly.

The D407-797-015/-016 Quick Release Heli-Utility-Baskets are rectangular in shape, 96.00" in length and are capable of carrying a distributed cargo load of 250 lbs. (113 kg). The D407-797-015/-016 Baskets feature a flat heavy-duty stainless-steel lid designed to be a step or act as a work platform. The D407-797-015/-016 Baskets are similar to the D407-797-011/-012 Baskets except that the D4271-011 Fwd Beam has been replaced with the D4271-015 Fwd Beam and the D4271-013 Aft Beam has been replaced with the D4271-017 Aft Beam.

The D407-797-017/-018 Quick Release Heli-Utility-Baskets are rectangular in shape, 96.00" in length and are capable of carrying a distributed cargo load of 265 lbs. (120 kg). The D407-797-017/-018 Baskets have a flat light weight aluminum lid covered with a "cargo net" type material. These baskets are 15 lbs. (6.8 kg) lighter than D407-797-015/-016 Baskets. However, the lid cannot be used as a step or act as a work platform. The D407-797-017/-018 Baskets are similar to the D407-797-013/-014 Baskets except that the D4271-011 Fwd Beam has been replaced with the D4271-015 Fwd Beam and the D4271-013 Aft Beam has been replaced with the D4271-017 Aft Beam.

The D407-797-113 Quick Release Basket Mounting Kit consists of the D4271-015 Fwd Beam Assy, D4271-017 Aft Beam Assy, D4292-1 Fwd Fittings and D4294-1 Aft Fittings which can be installed on LH/RH side. This Kit can be procured to equip multiple aircraft for quick transfer of the D4272-011/-012/-013/-014 Basket Assy from one aircraft to another.

The DSI 9901-011 Conversion Kit can be procured from Dart to convert the D407-797-011/-012/-013/-014/-111 Quick Release Heli-Utility-Basket kits to D407-797-015/-016/-017/-018/-113 Quick Release Heli-Utility-Basket kits.


CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 23.01.05
CERT. NO.: SH11-1
ISSUE NO.: 2

APPROVED

A	NEW ISSUE (REF: ECR 442)	SAD	23.01.05
REV.	DESCRIPTION	BY	DATE
DESIGN	SAD	DART AEROSPACE HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9901	SHEET 1 OF 4
APPROVED	IT	TITLE	SCALE
DE APPR.	DS 	407 BASKET BEAM INSTALLATION	NTS
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2.0 PROCEDURE:

2.1 D407-797-015/-016/-017/-018/-113 Quick Release Heli-Utility-Basket Kits

When installing the D407-797-015/-016/-017/-018/-113 Quick Release Heli-Utility-Basket kits with the AAI sliding door track assembly, use the procedures in Section 3.1 and Section 3.2 of IIN-D407-791-1 except replace the D4271-011 Fwd Beam with the D4271-015 Fwd Beam and replace the D4271-013 Aft Beam with the D4271-017 Aft Beam. Update Aircraft log book to indicate installation of D407-797-015/-016/-017/-018/-113 Quick Release Heli-Utility-Basket kits and adjust the Weight and Balance record for aircraft with the Weight and Balance Data provided in Section 4.0 of this Dart Service Instruction.

2.2 DSI 9901-011 Conversion Kit

Use the DSI 9901-011 Conversion Kit to convert a Dart D407-797-011/-012/-013/-014/-111 Quick Release Heli-Utility-Basket kit to a D407-797-015/-016/-017/-018/-113 Quick Release Heli-Utility-Basket kit by replacing the D4271-011/-013 Beams with D4271-015/-017 Beams. Install the modified basket kit per Section 2.1 of this DSI. If the D407-797-011/-012/-013/-014/-111 kit has been previously installed, update Aircraft log book to indicate installation of the DSI 9901-011 kit and adjust the Weight and Balance record for aircraft with the Weight and Balance Data provided in Section 4.0 of this Dart Service Instruction. If the D407-797-011/012/-013/-014/-111 kit has NOT been previously installed, update aircraft log book to indicate installation of the D407-797-015/-016/-017/-018/-113 Quick Release Heli-Utility-Basket kits and adjust the Weight and Balance record for the aircraft with the Weight and Balance data provided in Section 4.0 of this Dart Service Instruction.

3.0 PARTS LIST

3.1 D407-797-015/-016/-017/-018/-113 Quick Release Heli-Utility-Basket Kits.

Qty -015	Qty -016	Qty -017	Qty -018	Qty -113	Part Number	Description
X					D407-797-015	QUICK RELEASE HELI-UTILITY-BASKET
	X				D407-797-016	QUICK RELEASE HELI-UTILITY-BASKET
		X			D407-797-017	QUICK RELEASE HELI-UTILITY-BASKET
			X		D407-797-018	QUICK RELEASE HELI-UTILITY-BASKET
1	1	1	1	X	D407-797-113	QUICK RELEASE BASKET MOUNTING KIT
1					D4272-011	BASKET ASSY, HEAVY DUTY LID, LH
	1				D4272-012	BASKET ASSY, HEAVY DUTY LID, RH
		1			D4272-013	BASKET ASSY, LIGHT WEIGHT LID, LH
			1		D4272-014	BASKET ASSY, LIGHT WEIGHT LID, RH
				1	D4271-015	BEAM ASSY, FWD
				1	D4271-017	BEAM ASSY, AFT
				2	D4292-1	FITTING
				2	D4294-1	FITTING
				4	D4314-1	SHIM
				4	D4314-3	SHIM
				1	D4713-1	SPACER
				2	AN6-17A	BOLT
				2	AN6-20A	BOLT
				8	NAS1149D0663J	WASHER (OR AN960JD616)
				4	MS21042L6	NUT (OR MS21042-6)
				4	MS27151-19	NUT
				4	MS24694-10	SCREW
				1	MS3367-5-0	TIE WRAP

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DESIGN	SAD	DART AEROSPACE HAWKESBURY, ONTARIO, CANADA	
DRAWN	SAD		
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9901	SHEET 2 OF 4
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DE APPR.	DS	407 BASKET BEAM INSTALLATION	NTS
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3.2 DSI 9901-011 PARTS LIST


QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9901-011	CONVERSION KIT
1	D4271-015	FWD BEAM ASSEMBLY
1	D4271-017	AFT BEAM ASSEMBLY

4.0 WEIGHT AND BALANCE

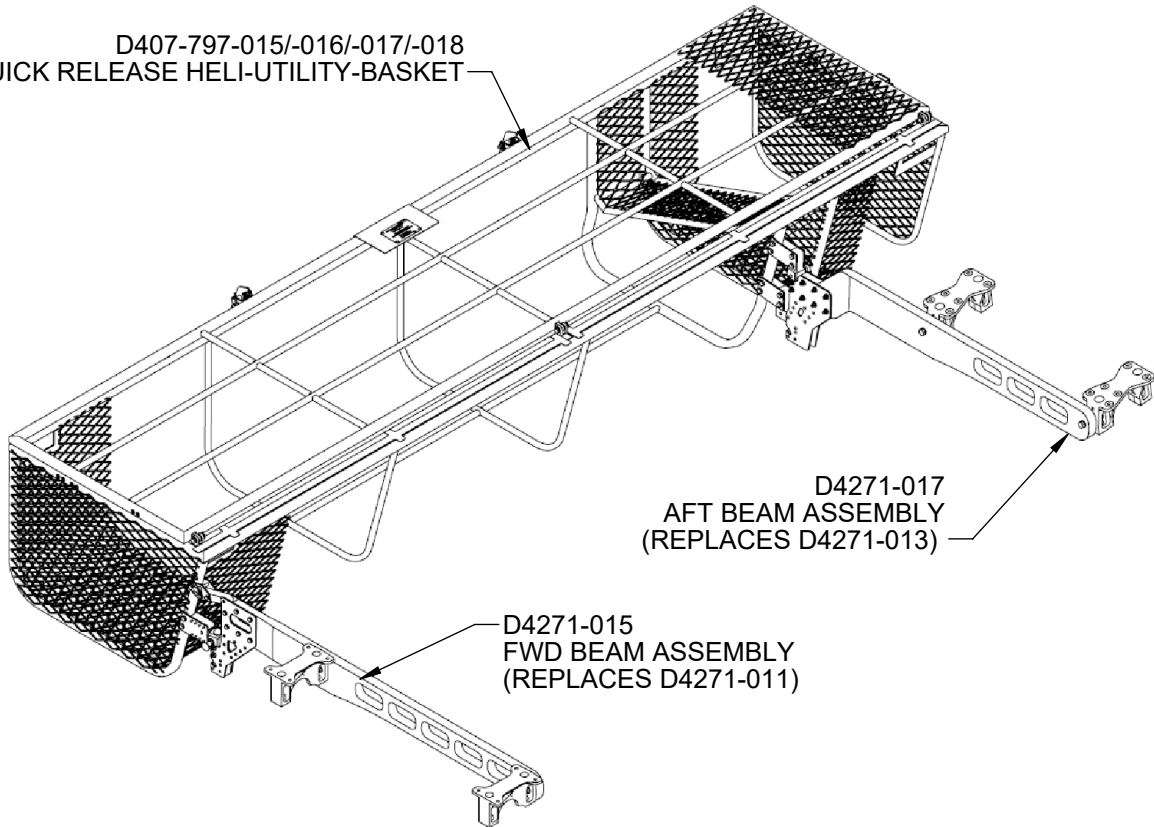
Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D407-797-015 (Heli-Utility Basket with Heavy Duty Lid, LH Install)	107.8 lb 48.9 kg	-31.7 in -0.81 m	-3417 in-lb -39.6 m-kG	118.5 in 3.01 m	12274 in-lb 147.2 m-kG
D407-797-016 (Heli-Utility Basket with Heavy Duty Lid, RH Install)	107.8 lb 48.9 kg	31.7 in 0.81 m	3417 in-lb 39.6 m-kG	118.5 in 3.01 m	12274 in-lb 147.2 m-kG
D407-797-017 (Heli-Utility Basket with Light Weight Lid, LH Install)	92.8 lb 42.1 kg	-31.7 in -0.81 m	-2941 in-lb -34.1 m-kG	118.5 in 3.01 m	10997 in-lb 126.7 m-kG
D407-797-018 (Heli-Utility Basket with Light Weight Lid, RH Install)	92.8 lb 42.1 kg	31.7 in 0.81 m	2941 in-lb 34.1 m-kG	118.5 in 3.01 m	10997 in-lb 126.7 m-kG
D407-797-113 (Quick Release Basket Mounting Kit, LH/RH Install)	35.0 lb 15.9 kg	± 11.4 in ± 0.29 m	± 399 in-lb ± 4.6 m-lb	111.8 in 2.83 m	3913 in-lb 45.0 m-kG

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
DSI 9901-011 Conversion Kit (Net)	2.8 lbs 1.3 kg	± 12.9 in ± 0.33 m	± 36.1 in-lb ± 0.43 m-kG	118.5 in 3.01 m	332 in-lb 3.9 m-kG

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D407-797-015/-016/-017/-018
QUICK RELEASE HELI-UTILITY-BASKET



D4271-017
AFT BEAM ASSEMBLY
(REPLACES D4271-013)

D4271-015
FWD BEAM ASSEMBLY
(REPLACES D4271-011)

FIGURE 1 - D407-797-015/-016/-017/-018 Quick Release Heli-Utility-Basket

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CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9901	SHEET 4 OF 4
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